

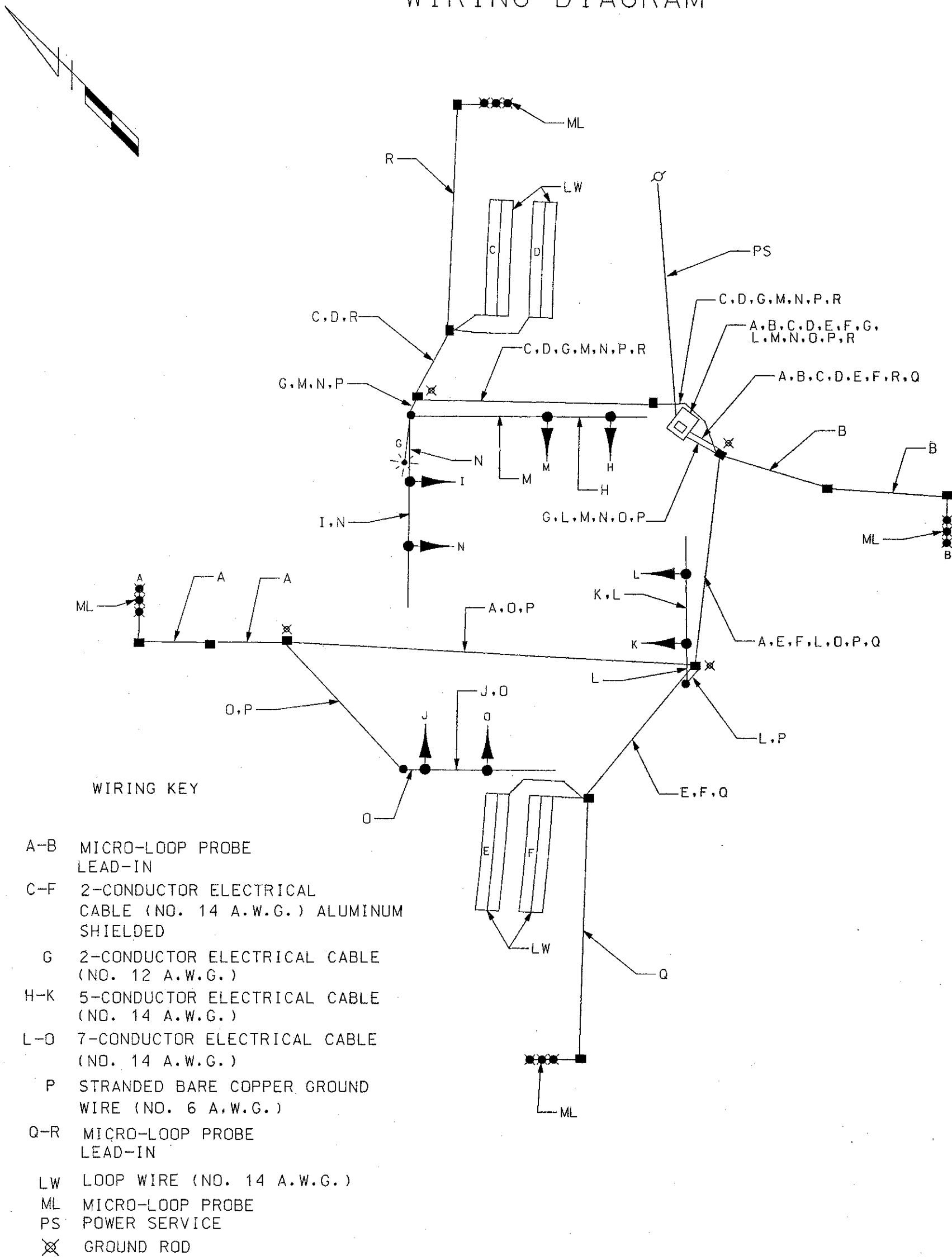
PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 648 AND PASADENA ROAD/CATHERINE AVE. IN ANNE ARUNDEL COUNTY. MD 648 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION. THIS WORK IS NECESSITATED BY GEOMETRIC IMPROVEMENTS OF THE ENTIRE INTERSECTION.

CONTROLLER OPERATION

AN EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER WITH TWO, FOUR-CHANNEL TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIERS HOUSED IN A BASE MOUNTED CABINET WILL BE INSTALLED AT THIS INTERSECTION. THE CONTROLLER WILL OPERATE AS A FOUR PHASE FULL-TRAFFIC-ACTUATED CONTROLLER.

WIRING DIAGRAM



PHASING

	1	2	3	4	5	6	7	8	
	R	R	R	R	R	R	R	R	
	Y	Y	Y	Y	Y	Y	Y	Y	
	G	G	G	G	G	G	G	G	
PHASE 2 + 6	G	G	G	G	R	R	R	R	
2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	
PHASE 4 & 8	R	R	R	R	G	G	G	G	
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MR. GREG WELKER DISTRICT ENGINEER (410) 841-1001	MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 841-1002
MR. LARRY ELLIOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 841-1003	MR. CHARLES GEORGE ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1002

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631	MR. DAVID SCHWARTZ SUPPLY OFFICER IV (SIGNAL WAREHOUSE) (410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

CONTACTS FOR POWER COMPANY

INDUSTRIAL/COMMERCIAL SERVICES
NEW BUSINESS CONSTRUCTION
7317 PARKWAY DRIVE SOUTH
HANOVER, MARYLAND 21076

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2001	4 EA	TEST PIT EXCAVATION
5004	100 LF	FURNISH AND INSTALL 24 IN. HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
8001	13 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION

EQUIPMENT LIST "B" CONTINUED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR.
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
8006	3 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8016	3 EA	FURNISH AND INSTALL NON-EVASIVE MICRO-LOOP PROBE WITH 500 FT. LEAD-IN
8017	1 EA	FURNISH AND INSTALL NON-EVASIVE MICRO-LOOP PROBE WITH 1000 FT. LEAD-IN
8021	475 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8023	60 LF	FURNISH AND INSTALL 1 IN. LIGHT TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8024	890 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8026	50 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT-BORED
8027	220 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8029	240 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT-BORED
8033	13 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	4 EA	FURNISH AND INSTALL GROUND ROD - 3/4" X 10'
8040	1740 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING (NO. 14 A.W.G.)
8041	530 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8044	110 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8045	800 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8046	170 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
8048	370 LF	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8049	45 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G. THHN/THWN)
8055	1 EA	FURNISH AND INSTALL 250 WATT LUMINARE WITH PHOTOCELL
8056	1 EA	FURNISH AND INSTALL 15 FT. LIGHTING BRACKET ARM FOR TRAFFIC SIGNAL STRUCTURE
8060	1 EA	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
8066	1 EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PHASE 3 WIRE SYSTEM)
8076	2 EA	FURNISH AND INSTALL MAST ARM POLE AND 38 FT. MAST ARM
8082	1 EA	FURNISH AND INSTALL MAST ARM POLE WITH TWIN 50 FT./60 FT. MAST ARMS
8084	24 EA	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION-MAST ARM MOUNT
---	1 EA	FURNISH INSTALL CONTROLLER AND CABINET - BASE MOUNT
---	2 EA	FURNISH INSTALL FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
---	6 EA	RELOCATE EXISTING OVERHEAD SIGN
---	2 EA	FURNISH AND INSTALL SHIELD ASSEMBLY (30"x51") "EAST/MD 648/ARROW"- GROUND MOUNT
---	2 EA	FURNISH AND INSTALL SHIELD ASSEMBLY (30"x51") "WEST/MD 648/ARROW"- GROUND MOUNT

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE RETURNED TO THE ADMINISTRATION

ALL EQUIPMENT THAT IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 648 AT PASADENA ROAD/CATHERINE AVE

DRAWN BY: T.M.Z	F.A.P. NO.	TS NO.
CHECKED BY: K.W.S	S.H.A. NO.	327A GI
SCALE: NONE	COUNTY: ANNE ARUNDEL	T.I.M.S. NO.
DATE: 6/2001	LOG MILE: 020648NN-NW	SHEET NO. 2 OF 2